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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY East Germany

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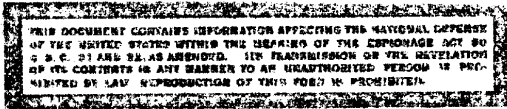
SUBJECT WTBG 3 Development of a Measuring Device for Thrust Acceleration

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INFO.SUPPLEMENT TO
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The following are the technical specifications for Development Project Number 54-12, which is to be carried out in 1954 by the Scientific-Technical Office for Device Construction (WTBG 3) of SAC Kabel: 1/

Technical Conditions for the Measurement Device with Standard Gauge for Thrust Accelerations.

1. Purpose:

The device is to measure thrust accelerations by use of thrust test standards of the falling table (ram, ram work) type.

2. The following technical details are requested:

The device must be able to measure the acceleration factor from 0.1 to 80. The device must work with remote transmission. The transmitter (Geber) of the device must either be fixed to the platform of the thrust stand or must be fitted closely (sich anlegen) to the platform while measurements are made. The dimensions of the device are not to exceed 300 x 300 x 300 millimeters. Dimensions of the "Geber" are not to exceed 60 x 60 x 60 millimeters. The weight of the device is not to exceed one to two kilograms. The distance circuit (Fernmessleitung) is to be at least six meters. Accuracy in the measurement of the acceleration factor is to be plus minus 5 percent. The device may have a commutator for measurement ranges. The control instruments of the standard gauge are to have a certificate from the State Testing Commission indicating the limit of error for the entire acceleration range.

The measurement accuracy of the measurement device and of the standard gauge must be independent of the surrounding temperature, of temperature changes between plus 10 and plus 30 centigrades, of changes in air humidity in the range 50 to 90 percent, of the influence of outside magneto-electric fields, and of vibrations of the base on which the device is placed, within the range of 20 to 200 vibrations per second and vibration accelerations of not more than one to two g.

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If the device is to be equipped with tubes, the tubes must be produced in USSR. The error limit is not to depend on the "steepness" of the time course with respect to the time required for maximum acceleration to be reached on the thrust stand to be tested.

3. acceptance conditions:

The acceptance test will be performed at the producing plant in the presence of a representative of the customer and in accordance with indications furnished by the customer and coordinated with the producer.

4. Items to be delivered by the producer:

- a. One measurement device for thrust acceleration with standard gauge (1 set).
- b. Spare parts and measurement devices on the basis of a list agreed upon with the customer.
- c. A description of the device.
- d. Operational instructions.
- e. Report of test.
- f. Report on standard data.

The specifications are signed by Ivanov (fnu) and Shalganov (fnu) and approved by Sinvak (fnu).

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- 1/ Comment: The specifications were originally conceived in Russian and then translated into German. The German translation is poor and equivocal. Accuracy of the English translation given here therefore cannot be guaranteed.

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- 2/ Comment: Wissenschaftlich-Technisches Bureau/Geraetebau

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